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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/581,146	11/13/2000	Paul Gothard Knutson	RCA88790	4059
75	90 04/02/2004		EXAM	INER
Joseph S Tripoli			HOANG, THAI D	
Thomson Multi	media Licensing Inc		<u></u>	
PO Box 5312			ART UNIT	PAPER NUMBER
Princeton, NJ 08540			2667	8.
		DATE MAILED: 04/02/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)
Office Assistant Community	09/581,146	KNUTSON ET AL.
Office Action Summary	Examiner	Art Unit
	Thai D Hoang	2667 .
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	mely filed  ys will be considered timely.  n the mailing date of this communication.  ED (35 U.S.C. § 133).
Status		
<ul> <li>1) Responsive to communication(s) filed on Appli</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowar closed in accordance with the practice under E</li> </ul>	action is non-final.  nce except for formal matters, pr	
Disposition of Claims		
4)  Claim(s) 1-19 is/are pending in the application.  4a) Of the above claim(s) is/are withdray  5)  Claim(s) is/are allowed.  6)  Claim(s) 1,2,6,7,10,11,15,16 and 19 is/are rejee  7)  Claim(s) 3-5,8,9,12-14,17 and 18 is/are objecte  8)  Claim(s) are subject to restriction and/or	wn from consideration. ected. ed to.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the correct of the contract	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is ol	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicative documents have been received in CPCT Rule 17.2(a)).	tion No red in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6.	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	

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#### **DETAILED ACTION**

## Claim Objections

Claims 1, 8, 10, 17 and 19 are objected to because of the following informalities:

The statement "may be" recited in claims 1, 10 and 19, is indefinite.

There are double periods at the end of the claims 8 and 17.

Appropriate correction is required.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 6-7, 10-11, 15-16 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kobayashi et al., US Patent No. 5,719,859, hereafter referred to as Kobayashi.

Regarding claims 1, 6-7, 10, 15-16 and 19, Kobayashi discloses a system called Time division multiple access radio communication system. Kobayashi discloses that the system (fig. 3) comprising: a base station 301 is connected with a communication network 305 by a telephone line; a plurality of mobile stations 302-304 communicate with the base station by TDMA method; fig. 5-7, 12, 29-31, abstract, columns 1-2. Kobayashi dose not disclose the system reduces sample size in a time slot when establishing a new TDMA link that would exceed the available capacity. However, Kobayashi discloses that when a mobile station needs to establish a new TDMA

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connection, but there is no available timeslot in a time frame, the system arranges low data rate time slots into one time slot that is shared by two or more mobile stations; col. 3, lines 46-50; col. 14, lines 1-21 and 36-47. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify by reducing sample size applied for each mobile station to share with others in one time slot in stead of combining multiple mobile stations that use small sample sizes disclosed by Kobayashi for the same purpose of establishing a new connection when the capacity of the system is limited.

Regarding claims 2 and 11, Kobayashi does not teach that the system uses

ADPCM code. However, the ADPCM is well known in the art. It would have been

obvious to one of ordinary skill in the art at the time the invention was made to apply

ADPCM in order to dynamically reduce sample size of each mobile station in a time slot.

#### Allowable Subject Matter

Claims 3-5, 8-9, 12-14, 17-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following references are cited to further show the state of the art with respect to the application:

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US Patent No. 5,740,165 A, Vannucci discloses "Wireless TDMA transmitter with reduced interference."

US Patent No. 6,002,673 A, Kahn et al. disclose "Method for channel management in a TDMA communication system."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D Hoang whose telephone number is (703) 305-3232. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (703) 305-4378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thai Hoang

CHI PHAM

Van

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600 4/3/(4)